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(71) Applicant (for all designated States except US): **IMPERIAL COLLEGE INNOVATIONS LIMITED**  
[GB/GB]; Sherfield Building, Imperial College, London  
SW7 2AZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STAUSS, Hans**,  
Josef [DE/GB]; Department of Immunology, Hammer-  
smith Hospital Campus, Imperial College London, Du  
Cane Road, London W12 0NN (GB). **GAO, Lique**  
[GB/GB]; Dept. of Immunology, Hammersmith Hospital  
Campus, Imperial College London, Du Cane Road, Lon-  
don W12 0NN (GB). **XUE, Shao-An** [CN/GB]; Dept. of  
Immunology, Hammersmith Hospital Campus, Imperial  
College London, Du Cane Road, London W12 0NN (GB).

(74) Agent: **MILES, John**; Eric Potter Clarkson, Park View  
House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

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(54) Title: T CELL RECEPTOR SPECIFIC FOR WILMS TUMOR ANTIGEN

(57) Abstract: A T cell receptor molecule (TCR) containing an alpha chain portion and a beta chain portion wherein the alpha chain portion contains three complementarity determining regions (CDRs): CDR1 $\alpha$ : SSYSPS CDR2 $\alpha$ : YTSAATL CDR3 $\alpha$ : VVSPF-SGGGADGLT or comprising or consisting of SPFSGGGADGLT and the beta chain portion contains three complementarity determining regions (CDRs): CDR1 $\beta$ : DFQATT CDR2 $\beta$ : SNEGSKA CDR3 $\beta$ : comprising SARDGGEG or comprising or consisting of RDGGEGSETQY, or wherein up to three amino acid residues in one or more CDRs are replaced by another amino acid residue. The invention also includes polynucleotides encoding the TCR molecules, and host cells containing the said polynucleotides. Patient derived T cells may have the polynucleotides encoding the TCR molecules introduced therein, and the engineered T cells may be introduced into the patient in order to combat a WT1-expressing malignancy.



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